

INTERNATIONAL SEARCH REPORT

International application No.

PCT/NZ2006/000133

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. *A63B 69/00* (2006.01) *G09B 9/02* (2006.01)
A63C 5/16 (2006.01) *G09B 19/16* (2006.01)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

DWPI: IPC A63B 69/-, G09B 19/16, G09B9/02, A63C 5/16 & Keywords (Board, Support, Simulator, Train, Resilient, Spring, Rotate, Pivot, Swivel, Roll, Yaw, Pitch) and similar terms; Espac & Keywords (Board, Sport, Simulator)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	US 2003/0017922 A1 (SACHS) 23 January 2003 See abstract and figures 1 to 12. See figure 2, 6 and 11.	1-8, 10-20, 26, 27 31-35
X Y	US 5062629 A (VAUGHAN) 5 November 1991 See figures 1 to 3. See figures 1 to 3.	1-8, 10-20, 21, 24-25 31
X Y	CA 2209030 A1 (CURTIS et al.) 15 January 1999 See figures 1 to 5. See figure 1 to 3.	1, 4-21, 43-44 22, 23, 31
X Y	Derwent Abstract Accession No. 2003-253883/25, Class A86 KR 2002078447-A (KO) 18 October 2002 See abstract and drawing. See abstract.	1-8, 10-25, 28-31 31-35

☒ Further documents are listed in the continuation of Box C ☒ See patent family annex

* Special categories of cited documents:	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
A document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
E earlier application or patent but published on or after the international filing date	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*Z* document member of the same patent family
O document referring to an oral disclosure, use, exhibition or other means	
P document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
20 September 2006

Date of mailing of the international search report
27 SEP 2006

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

See Supplemental Box.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	US 6413197 B2 (McKECHNIE et al.) 2 July 2002 See abstract and figures 1 to 7. See figure 2 and 5.	1, 4-16, 21, 24-25 31
X Y	US 4966364 A (EGGENBERGER) 30 October 1990 Cited in the application. See figures 1 to 5. See figure 1, 2 and 4.	1-8, 10-20 31
X Y	US 2004/0138028 A1 (HSIEH) 15 July 2004 See abstract and figures 1 to 11. See figures 4 to 7.	1 31
A	US 5509871 A (GIOVANNI) 23 April 1996 Cited in the application. See figures 1 to 4.	
A	US 2003/0125173 A1 (FAN et al.) 3 July 2003 See figures 1 to 9.	
A	US 5192258 A (KELLER) 9 March 1993 See figures 1 to 5.	
A	US 5318488 A (BABCOCK) 7 June 1994 See figures 1 to 9.	
A	EP 0338295 A2 (BERTOLETTI) 25 October 1989 See figures 1 and 2.	
A	US 4449940 A (BERGER) 22 May 1984 See figures 1 to 15.	
A	US 2004/0198507 A1 (CORBALIS) 7 October 2004 See figures 1 to 16.	
A	FR 2624385 A1 (BARIL) 16 June 1989 See figures 1 to 11.	

Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: III**1st Group of Claims - Claims 1 to 30 and 43 to 69**

Claims 1 to 30 are directed to an activity board assembly including a board having an upper surface for supporting a user, a base portion and a resilient support member connected to an underside of the board and a lower end being connected to the base portion. The board is characterised in that it is rotatable with respect to the base portion about three defined axes and that the connection between the resilient support member and the base portion is configured to prevent *linear movement* with respect to each other. It is considered that this configuration, namely relating to confined movement comprises a first distinguishing feature.

Claims 43 to 45 are directed to an activity board with including at least one displacement assembly, located between the lower board surface and the resilient support member. The board is characterised in that it is rotatable with respect to the base portion about three defined axes and that the displacement assembly is configured to allow at least *partial translational relative movement* between the board and the resilient support member at least partially along or parallel to the second and/or third axis. It is considered that this configuration ties in with that of the first distinguishing feature, namely its relation to partial movement.

Claims 46 to 69 are directed to an activity board characterised in that it is rotatable with respect to the base portion about three defined axes and that the base portion is adapted for constrained movement along an elongate guiding track. It is considered that this configuration ties in with that of the first distinguishing feature, namely its relation to constrained movement.

2nd Group of Claims - Claims 31 to 42

Claims 31 to 42 are directed to an activity board characterised in that it is rotatable with respect to the base portion about three defined axes and that the base portion is provided with one or more wheel or roller assemblies on a lower surface. It is considered that the provision of wheel(s) or roller assemblies comprises a second distinguishing feature.

Each of the abovementioned groups of claims has a different distinguishing feature and they do not share any feature which could satisfy the requirement for being a special technical feature. Because there is no common special technical feature it follows that there is no technical relationship between the identified inventions. Therefore the claims do not satisfy the requirement of unity of invention *a priori*.

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Information on patent family members

International application No.

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
US	20030017922	CA	2353663	US	7081075		
US	5062629						
CA	2209030						
KR	2002078447						
US	6413197	AU	6116799	CA	2351229	US	2001016544
		WO	2000023149				
US	4966364	CA	2011310				
US	20040138028	DE	2030533	US	7094183		
US	5509871						
US	20030125173	AU	2003285893	US	7008359	WO	2004035144
US	5192258						
US	5318488						
EP	0338295	IT	1220260	US	4964160		
US	4449940	EP	0052051	FR	2494013		
US	20040198507	US	6942487				
FR	2624385						

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX